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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,026	02/25/2004	Hans-Jurgen Nolte	PO-8004/LeA 36,450	7133
157 7:	590 02/08/2006		EXAMINER	
BAYER MATERIAL SCIENCE LLC 100 BAYER ROAD			SERGENT, RABON A	
PITTSBURGH, PA 15205			ART UNIT	PAPER NUMBER
			1711	
			DATE MAILED: 02/08/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/789,026	NOLTE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rabon Sergent	1711				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 C	October 2005.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-67 is/are pending in the application 4a) Of the above claim(s) 10-22 and 27-59 is/a 5) Claim(s) is/are allowed. 6) Claim(s) 1-9,23-26 and 60-67 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	re withdrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 25 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Examine 11.	e: a)⊠ accepted or b)⊡ objecte drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/25/04.8/23/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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1. The foreign priority document, Germany 10308755.9, filed 02/28/2003, has not been received.

- 2. Applicant's election without traverse of Group I, claims 1-9, 23-26, and 60-67 in the reply filed on October 28, 2005 is acknowledged.
- 3. Claims 1-9, 23-26, and 60-67 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Within claim 1, it is unclear what is meant or intended by the language, "repeatedly in succession"; furthermore, it is unclear how "in succession" is to further modify "repeatedly".

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-4, 6, 7, 23-25, and 60-67 are rejected under 35 U.S.C. 102(b) as being anticipated by Kahl et al. ('518).

Patentees disclose the homogenation of two component aqueous polyurethane coating compositions by forcing the aqueous two component mixture through a jet disperser. Patentees further disclose an embodiment wherein the stream recycles back to be introduced into the jet disperser (homogenizer) again. See Figure 5. The position is taken that this disclosure meets applicants' claims. With respect to claims 63, 66, and 67, the position is taken that applicants have not established that the process limitations of claims 5, 8, and 9, respectively, yield a patentably distinct product.

6. Claims 1-9, 23-26, and 60-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahl et al. ('518) in view of Bock et al. ('419) or Burke, Jr. ('698 or '700 or '701) or Khungar et al. ('142) or Dong et al. (US 2001/0012872).

As aforementioned, Kahl et al. disclose the homogenation of two component aqueous polyurethane coating compositions by forcing the aqueous two component mixture through a jet disperser. Patentees further disclose an embodiment wherein the stream recycles back to be introduced into the jet disperser (homogenizer) again. See Figure 5. In addition to this teaching, the position is taken that the use of recycle streams to reintroduce dispersions and emulsions into homogenizers to improve their properties has long been known in the art. The Burke, Jr. references disclose at column 24, the use of homogenizers in combination with recycle to improve such emulsion properties as particle size and particle size distribution. Khungar et al.

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disclose at column 5, lines 39+ that recirculation through a homogenizer is useful to obtain optimum homogenization of monomer mixes. Dong et al. disclose within paragraph [0015] the use of a recycle loop in combination with homogenization to ensure emulsion stability.

Furthermore, both Kahl et al. (column 6, lines 49-52) and Bock et al. (column 5, line 66 through column 6, line 8) disclose the use of homogenizers in series, which is considered to be analogous to using a recycle stream. Therefore, given these additional teachings, the position is taken that it would have been obvious to practice the method of Kahl et al. using a recycle stream to reintroduce the composition into the homogenizer, so as to obtain improved dispersions.

Furthermore, though the references fail to disclose applicants' claimed flow rates and gear pumps, the position is taken that the selection of such conditions and equipment amounts to the obvious selection and optimization of conventional chemical engineering practices and equipment.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (571) 272-1079.

R. Sergent February 5, 2006 RABON SÉRĞENT